



Televes reserves the right to modify the product

Transmodulator equipped with remultiplexing

DVBS/S2 - DVBT, with CI

Transmodulator generating one (two) COFDM multiplex from the multiplexing of the services available in up to 3 different TV SAT transponders.

These may be extracted from 2 different satellites (2 independent SAT inputs), or from a single satellite, using the headend's input loop.

Ref.564301	Twin	
	Art.Nr	U3Q2C-S2-CI
	EAN13	8424450172520
Ref.564201	Single	
	Art.Nr	U3QC-S2-CI
	EAN13	8424450160503

Highlights

- Total or selective removal of the services present in the received transponder, to avoid them being detected (and memorized) by the receivers (STB)
- Editable TS_ID, which makes programme/service detection easier on the receiver (STB), since the channel scan is based on this identifier
- LCN (Logical Channel Number) allows the assignment of the services present in the output to an LCN, which makes the ordering of the channels easier on the receivers (STB)
- Provides information regarding both the occupation of each specific service and the global output occupation, which allows the optimization of the services being distributed
- Can be remotely controlled using CDC (Headend control)
- Device monitoring and signal status LEDs

Main features

- Null packet insertion ("Stuffing") allows the receiver (STB) to perform a faster scan

- PID filtering allows the removal of undesired services from a Multiplex (enhanced occupation use); very interesting when combined with CAM use
- S_ID editable to prevent the receivers (STB) in an installation from retuning when the output-Multiplex's services are modified
- Editable Network_ID, Original Network_ID and Cell_ID allow the control of network identifiers
- The encrypted satellite channels are transformed into free DTT services through the CI interface and the appropriate CAM module. Depending on the CAM type used (standard/professional), one or several services may be opened for free visualization

Technical specifications

References				564201	564301
SAT INPUT	SAT	Input frequency range	MHz	950...2150	
		Frequency steps		1	
		Input level	dB μ V	42 - 82	
		Loop-through losses		$\leq 1,5$	
		LNB powering	Vdc	13V/17V/ OFF - 22KHz (ON/OFF)	
		Input return losses (typ.)	Ω	dB	
		Input impedance		75	
	DVB-S	Symbol rate (Modulation)	Mbaud	2 - 42,5 (QPSK)	
		FEC inner code		Viterbi (1/2, 2/3, 3/4, 5/6, 7/8)	
		FEC outer code		RS (188/204)	
		Roll-Off factor		%	35
	DVB-S2	Symbol rate (Modulation)	Mbaud	10 - 30 (QPSK, 8PSK)	
		FEC inner code		LDPC (1/2, 1/3, 1/4, 2/3, 2/5, 3/4, 3/5, 4/5, 5/6, 8/9, 9/10)	
		FEC outer code		BCH (Bose-Chaudhuri-Hocquenghem)	
Roll-Off factor		%		20, 25, 35	
DTT OUTPUT	COFDM	Modulation (Constellation)	QPSK, 16QAM, 64QAM		
		Guard interval	μ s	1/4, 1/8, 1/16, 1/32	
		Scrambling	DVB EN 300744		
		Interleaving	DVB EN 300744		
		Convolutional code (FEC)	Viterbi (1/2, 2/3, 3/4, 5/6, 7/8)		
		PCR Correction	Sí		
		Services deleting	Sí		
		Network_ID	Sí		
		Original Network_ID	Sí		
		Cell_ID	Sí		
		TS_ID	Sí		
		S_ID	Sí		
		LCN	Sí		
		Spectral inversion	Normal, Inverted		
	Channel bandwidth	Mhz	7,8		
	Output frequency		45 - 862		
	RF	Frequency steps	KHz	166 - 125 (user selectable)	
		Output level (max. typ.)		dB μ V	
		Output level regulation margin	dB	$> 80 \pm 5$	
		Output loop-through losses		> 15	
		Output return losses (typ.)		$< 1,5$	
Output impedance		Ω	> 12		
Output impedance		Ω	75		
GENERAL	Powering voltage	Vdc	24		
	Consumption	mA	520 (0 CAM - 0 LNB) 620 (1 CAM - 0 LNB) 870 (0 CAM - 1 LNB) 1120 (1 CAM - 2 LNBs)	530 (0 CAM - 0 LNB) 630 (1 CAM - 0 LNB) 880 (0 CAM - 1 LNB) 1130 (1 CAM - 2 LNBs)	
	Protection index		IP	20	